

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3666408	search history prior to this string lost by EAST crash	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 10:20
S2	11	"4442335".pn. "4641820".pn. "5216800".pn. "5788225".pn. "6073325".pn. "6089557".pn. "6145180".pn. "6360421".pn. "6378190".pn. "6389698".pn. "6642423".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 10:28
S3	8	"6334252".pn. "4369563".pn. "3854889".pn. "20020100159".pn. "6378186".pn. "6065200".pn. "5371679".pn. "5272805".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 10:50
S6	589	29/897.2.ccls.	US-PGPUB; USPAT	OR	OFF	2005/09/23 10:30
S7	562	29/430.ccls.	US-PGPUB; USPAT	OR	OFF	2005/09/23 10:30
S8	543	29/429.ccls.	US-PGPUB; USPAT	OR	OFF	2005/09/23 10:30
S9	785	29/469.ccls.	US-PGPUB; USPAT	OR	OFF	2005/09/23 10:30
S10	241	29/783.ccls.	US-PGPUB; USPAT	OR	OFF	2005/09/23 10:31
S11	183	29/791.ccls.	US-PGPUB; USPAT	OR	OFF	2005/09/23 10:31
S12	259	29/822.ccls.	US-PGPUB; USPAT	OR	OFF	2005/09/23 10:31
S13	138	29/823.ccls.	US-PGPUB; USPAT	OR	OFF	2005/09/23 10:31
S14	2894	S6 S7 S8 S9 S10 S11 S12 S13	US-PGPUB; USPAT	OR	OFF	2005/09/23 10:31
S15	5	"6378186".pn. "6065200".pn. "5371679".pn. "5272805".pn. "4683651".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 10:51
S16	1	S15 and cells	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 10:52
S17	1	S15 and cell\$5	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 10:52
S18	84	S14 and cells	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 10:52
S19	38	S14 and (cells same process\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 10:58

S20	389	S14 and (automobile automotive)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 10:58
S21	104	S20 and (cell\$4 group\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 13:44
S22	1	"5127569".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:07
S23	81	(tabletop or "table top") and tilt\$3 and manufacturing and workpiece	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:08
S24	41	(tabletop or "table top") and tilt\$3 and manufacturing and workpiece and weld\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:11
S25	121	(tilt\$3 with workpiece) and manufacturing and weld\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:15
S26	58	(tilt\$3 near3 workpiece) and manufacturing and weld\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:18
S27	166	(tilt\$3 near3 workpiece) same table\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:20
S28	38	S27 and weld\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:40
S29	1	"6378190".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:45
S30	1	"6438842".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:46
S31	16	"pedestal welder"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:47
S32	16	"pedestal welder" "pedestal welders"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:47
S33	6202	weld\$3 and robot	US-PGPUB; USPAT; USOCR	OR	OFF	2005/09/23 16:47
S34	43	weld\$3 and robot	USOCR	OR	OFF	2005/09/23 16:48
S35	0	robot.ti. and weld\$3.ti.	USOCR	OR	OFF	2005/09/23 16:48
S36	88	robot.ti. and weld\$3.ti.	US-PGPUB; USPAT	OR	OFF	2005/09/23 16:52
S37	0	robot.ti. and weld\$3.ti. and pedestal	US-PGPUB; USPAT	OR	OFF	2005/09/23 16:49

S38	13	robot.ti. and workpiece.ti.	US-PGPUB; USPAT	OR	OFF	2005/09/23 16:55
S39	604	robot same workpiece same weld\$3	US-PGPUB; USPAT	OR	OFF	2005/09/23 16:55
S40	178	robot same workpiece same weld\$3 same (hold\$3 manipulats\$3)	US-PGPUB; USPAT	OR	OFF	2005/09/23 16:55
S41	51	robot with workpiece with weld\$3 with (hold\$3 manipulats\$3)	US-PGPUB; USPAT	OR	OFF	2005/09/23 17:08
S42	58	seventh with axis with slide	US-PGPUB; USPAT	OR	OFF	2005/09/23 17:09
S43	12	seventh with axis with slide with dual	US-PGPUB; USPAT	OR	OFF	2005/09/23 17:08
S44	158	"seventh axis"	US-PGPUB; USPAT	OR	OFF	2005/09/23 17:09
S45	14	"seventh axis" with slide	US-PGPUB; USPAT	OR	OFF	2005/09/23 17:09
S46	15	"seventh axis" with slid\$3	US-PGPUB; USPAT	OR	OFF	2005/09/26 09:52
S47	0	robot\$2.ti. and "dual stations"	US-PGPUB; USPAT	OR	OFF	2005/09/26 09:52
S48	0	robot\$2.ti. and "dual station"	US-PGPUB; USPAT	OR	OFF	2005/09/26 09:52
S49	55	robot\$2.ti. and ((plurality multiple) adj (workpieces workstations))	US-PGPUB; USPAT	OR	OFF	2005/09/26 10:01
S50	456	"welding gun" and robot	US-PGPUB; USPAT	OR	OFF	2005/09/26 10:01
S51	105	"welding gun" and robot\$2.ti.	US-PGPUB; USPAT	OR	OFF	2005/09/26 10:01
S52	8	"welding gun".ti. and robot\$2.ti.	US-PGPUB; USPAT	OR	OFF	2005/09/26 10:12
S53	1	"5014901".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/26 10:35
S54	0	("indexing shuttle" "indexing shuttles") and fixture\$1 and workpiece\$1 and (independent\$2 with control\$2)	US-PGPUB; USPAT	OR	OFF	2005/09/26 10:36
S55	14	("indexing shuttle" "indexing shuttles") and fixture\$1 and workpiece\$1	US-PGPUB; USPAT	OR	OFF	2005/09/26 10:42
S56	2	(multipl\$5 plural\$3) with "independently controlled" with workpieces	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:28
S57	1	"6334252".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:32
S58	14	"laser welding robot"	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:41

S59	9	"5225650".pn. "6378190".pn. "3763344".pn. "5007784".pn. "5738564".pn. "5014901".pn. "4621516".pn. "6334252".pn. "5115115".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:20
S60	0	S59 and (press same welding)	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:42
S61	16	"press welding" same fixture	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:43
S62	242	"press welding"	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:43
S63	33	"press welding" and fixture	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:44
S64	17	S63 NOT S61	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:43
S65	242	press adj welding	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:45
S66	230	S65 NOT ghuman	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:53
S67	32	"press welder"	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:54
S68	2	"6515251".pn. "6743331".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/26 11:59
S69	1	"6642423".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:02
S70	4	stiers and hemmer	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:13
S71	1	"6642473".PN.	USPAT; USOCR	OR	OFF	2005/09/26 12:03
S72	1	"5239739".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:15
S73	1	"6378190".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:15
S74	10	"5225650".pn. "6378190".pn. "3763344".pn. "5007784".pn. "5738564".pn. "5014901".pn. "4621516".pn. "6334252".pn. "5115115".pn. "5239739".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:20
S75	2	S74 and pallet	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:24
S76	221	"sealant applicator"	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:24
S77	42	"sealant applicator".ti.	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:24
S78	1	"sealant applicator".ti. and robot	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:27

S79	652	sato and roller and weld\$	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:27
S80	1	"6334252".pn. and weld\$	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:31
S81	2	"welding gate fixture"	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:33
S82	13	"5225650".pn. "6378190".pn. "3763344".pn. "5007784".pn. "5738564".pn. "5014901".pn. "4621516".pn. "6334252".pn. "5115115".pn. "6515251".pn. "6642473".pn. "5239739".pn. "6001181".pn.	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:34
S83	10	S82 and (clamp\$3 grip\$3)	US-PGPUB; USPAT	OR	OFF	2005/09/26 12:34